

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--------------------|------------------|---------|---------------------|
| S1 | 6 | liquid phase microextraction | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 12:28 |
| S2 | 1 | "20040171169" | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 16:44 |
| S3 | 1 | "5169634".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/10/22 10:31 |
| S4 | 2 | pedersen-bjergaard stig.in. | US-PGPUB; USPAT | ADJ | ON | 2007/05/17 07:25 |
| S5 | 29 | liquid NEAR5 microextraction | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:02 |
| S6 | 11 | S5 AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:03 |
| S7 | 48 | liquid NEAR10 microextraction | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:10 |
| S8 | 22 | S7 AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:03 |
| S9 | 347 | liquid AND microextraction | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:10 |
| S10 | 159 | S9 AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:10 |
| S11 | 11 | S10 AND (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether) | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:24 |
| S12 | 1 | "4844067".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:24 |
| S13 | 248 | liquid phase microextraction OR liquid phase extraction | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:59 |
| S14 | 84 | S13 AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:59 |
| S15 | 36 | S14 AND oil | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 14:59 |
| S16 | 4 | S14 AND soya oil | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:00 |
| S17 | 561 | membrane AND soya oil | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:00 |
| S18 | 13 | membrane SAME soya oil | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:03 |
| S19 | 271 | membrane SAME (soya oil OR olive oil OR tea tree oil) | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:37 |
| S20 | 1 | membrane SAME nitroarylalkylether | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:38 |

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|-----|-----|--|-----------------|-----|----|------------------|
| S21 | 0 | membrane SAME nitroarylalkyl ADJ ether | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:38 |
| S22 | 737 | membrane SAME nitro AND ether | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:39 |
| S23 | 19 | membrane SAME (nitro NEAR5 ether) | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:40 |
| S24 | 1 | "20020040154" | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 15:40 |
| S25 | 1 | "3612283".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 16:30 |
| S26 | 10 | acceptor solution AND membrane AND analyte | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 16:47 |
| S27 | 1 | "4837157".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:07 |
| S28 | 184 | vegetable oil WITH membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:08 |
| S29 | 21 | S28 AND hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:43 |
| S30 | 185 | porous polymeric substrate | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:21 |
| S31 | 27 | S30 AND (fatty acid ester OR vegetable oil OR silicone oil OR nitro arylalkylether) | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:24 |
| S32 | 22 | S31 AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:24 |
| S33 | 17 | porous polymeric substrate AND (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether) AND membrane AND hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:45 |
| S34 | 1 | porous polymeric substrate SAME (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether) AND membrane AND hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:46 |
| S35 | 6 | porous polymeric substrate SAME (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether) | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:50 |
| S36 | 27 | porous polymeric substrate AND (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether) | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:53 |
| S37 | 0 | S27 AND hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:51 |
| S38 | 52 | porous polymeric substrate SAME hollow fiber SAME membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 17:53 |

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| S39 | 17 | S38 AND (fatty acid ester OR vegetable oil OR silicone oil OR nitroarylalkylether) | US-PGPUB; USPAT | ADJ | ON | 2007/05/01 18:00 |
| S40 | 8 | surface modified porous membrane and process | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:15 |
| S41 | 8 | surface modified porous membrane and process | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:15 |
| S42 | 7 | S41 AND hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:19 |
| S43 | 687 | membrane AND hollow fiber AND acceptor | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:20 |
| S44 | 74 | porous polymeric substrate AND hollow fiber AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:24 |
| S45 | 12 | S44 AND acceptor | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:21 |
| S46 | 1 | porous polymeric substrate AND (hollow fiber WITH acceptor) AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:24 |
| S47 | 8 | (hollow fiber WITH acceptor) AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:35 |
| S48 | 17 | (hollow fiber SAME acceptor) AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:52 |
| S49 | 1 | "5418006".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:58 |
| S50 | 12 | porous polymeric substrate AND fatty acid ester AND membrane | US-PGPUB; USPAT | ADJ | ON | 2007/05/02 09:59 |
| S51 | 0 | "4199765..pn" | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:41 |
| S52 | 1 | "4199765".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:41 |
| S53 | 1 | "7148060".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:41 |
| S54 | 1 | "4859535".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:41 |
| S55 | 1 | "4394372".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:42 |
| S56 | 1 | "5914038".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:42 |
| S57 | 1 | "6112908".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:47 |
| S58 | 3181 | analyte AND membrane AND acceptor | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:47 |
| S59 | 40 | S58 AND stir AND hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:48 |

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|-----|-----|--|--------------------|-----|-----|---------------------|
| S60 | 4 | S59 AND polyolefin | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:50 |
| S61 | 1 | "20040171169".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/07 16:51 |
| S62 | 4 | micro ADJ extraction AND membrane AND carrier NEAR3 layer | US-PGPUB; USPAT | ADJ | ON | 2007/05/08 08:06 |
| S63 | 4 | micro NEAR2 extraction AND membrane AND carrier NEAR3 layer | US-PGPUB; USPAT | ADJ | ON | 2007/05/08 08:06 |
| S64 | 82 | micro NEAR2 extraction AND membrane AND carrier | US-PGPUB; USPAT | ADJ | ON | 2007/05/08 08:10 |
| S65 | 2 | micro NEAR2 extraction AND membrane AND carrier AND TOPO | US-PGPUB; USPAT | ADJ | ON | 2007/05/08 08:18 |
| S66 | 1 | "6354443".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/08 10:15 |
| S67 | 40 | analyte AND membrane AND acceptor AND stir AND hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/05/08 10:19 |
| S68 | 0 | "schafer.in" AND "5861097". pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/08 10:19 |
| S69 | 1 | "5861097".pn. | US-PGPUB; USPAT | ADJ | ON | 2007/05/08 10:19 |
| S70 | 34 | hollow fiber and microextraction | US-PGPUB; USPAT | ADJ | ON | 2007/05/17 07:48 |
| S71 | 2 | hollow fiber and membrane and (soya oil or tree tea oil) | US-PGPUB; USPAT | ADJ | ON | 2007/05/17 07:49 |
| S72 | 309 | membrane and (soya oil or tree tea oil) and (coating or film) | US-PGPUB; USPAT | ADJ | ON | 2007/05/17 07:49 |
| S73 | 47 | membrane and (soya oil or tree tea oil) same(coating or film) | US-PGPUB; USPAT | ADJ | ON | 2007/05/17 12:10 |
| S74 | 1 | ("20040116829").PN. | US-PGPUB; USPAT | OR | OFF | 2007/05/17 12:10 |
| S75 | 7 | ((("5229004") or ("5252220") or ("5512180") or ("5603953") or ("9868935") or ("6096217") or ("6162360") or ("6171563")).PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/26 16:16 |
| S76 | 1 | ("5650323").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/26 16:13 |
| S77 | 13 | manns.in. and hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/09/26 17:24 |

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|-----|-------|---|------------------------|-----|-----|------------------|
| S78 | 150 | liquid membrane with (fatty acid ester or vegetable oil or silicone oil or mixture) | US-PGPUB; USPAT | ADJ | ON | 2007/09/26 17:28 |
| S79 | 67 | S78 and hollow adj fiber | US-PGPUB; USPAT | ADJ | ON | 2007/09/26 17:24 |
| S80 | 61 | S79 and @py<="2004" and @ay<="2004" | US-PGPUB; USPAT | ADJ | ON | 2007/09/26 17:25 |
| S81 | 11 | liquid membrane with (fatty acid ester or vegetable oil or silicone oil) | US-PGPUB; USPAT | ADJ | ON | 2007/09/26 17:28 |
| S82 | 6 | ("2358320" "3993746" "4390260" "4413014" "4861586").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2007/09/27 12:38 |
| S83 | 1 | ("5507949").PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/11 09:12 |
| S84 | 91036 | "210".clas. | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 09:12 |
| S85 | 3303 | S84 and liquid near3 membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 09:12 |
| S86 | 40 | S85 and fatty acid ester | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 09:12 |
| S87 | 32 | S86 and @py<="2004" and @ay<="2004" | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:01 |
| S88 | 25 | S85 and (olive or tree or soya) near3 oil | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:01 |
| S89 | 22 | S88 and @py<="2004" and @ay<="2004" | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:03 |
| S90 | 0 | S89 and (liquid same phase same microextraction) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:04 |
| S91 | 0 | S89 and (liquid same microextraction) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:04 |
| S92 | 10 | S89 and (extraction) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:04 |
| S93 | 15919 | (liquid near3 membrane) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:04 |
| S94 | 37 | S93 and membrane same oil same (olive or teatree or soya) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:05 |
| S95 | 6 | S94 and extraction | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:16 |
| S96 | 1 | ("4276179").PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/11 10:40 |
| S97 | 0 | S96 and ionophore | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:40 |
| S98 | 32 | ionophore | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:41 |

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|------|-------|--|--------------------|-----|-----|---------------------|
| S99 | 0 | S98 and liquid membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 10:41 |
| S100 | 6 | S98 and fiber | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:43 |
| S101 | 6 | (("4666543") or ("5282964") or ("5474902") or ("5846427") or ("5202023") or ("5252220")).PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/11 11:43 |
| S102 | 0 | S101 and perservative | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:44 |
| S103 | 15687 | hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:44 |
| S104 | 38 | S103 and microextraction | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:44 |
| S105 | 0 | S104 and perservative | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:44 |
| S106 | 15 | S104 and housing | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:46 |
| S107 | 2099 | liquid adj membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:46 |
| S108 | 1 | S107 same preservative | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:48 |
| S109 | 110 | S107 and preservative | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:48 |
| S110 | 1 | S109 and microextraction | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:51 |
| S111 | 2099 | liquid adj membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:51 |
| S112 | 488 | S111 and hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:51 |
| S113 | 130 | S112 and (store or stored) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:51 |
| S114 | 70 | S113 and days | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:51 |
| S115 | 59 | S114 and @py<="2004" and @ay<="2004" | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 11:52 |
| S116 | 7 | S115 and ((store or stored) same days) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:01 |
| S117 | 965 | hollow adj fiber and ((store or stored) same days) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:02 |
| S118 | 52 | S117 and analyte and extract | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:02 |
| S119 | 26 | S118 and @py<="2004" and @ay<="2004" | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:06 |
| S120 | 15687 | hollow adj fiber | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:06 |

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| S121 | 149 | S120 same liquid adj membrane | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:06 |
| S122 | 34 | S121 and (housing or closed near3 (container or compartment)) | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:07 |
| S123 | 24 | S122 and @py<="2004" and @ay<="2004" | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:26 |
| S124 | 1 | liquid adj membrane same preservative | US-PGPUB; USPAT | ADJ | ON | 2007/10/11 12:29 |
| S125 | 1 | ("0514686").PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/11 12:29 |
| S126 | 1 | ("6291249").PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/11 12:30 |
| S127 | 1 | ("5507949").PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/22 10:32 |
| S128 | 1 | S127 and hollow | US-PGPUB; USPAT | ADJ | ON | 2007/10/22 10:32 |
| S129 | 1 | S127 and hollow fiber | US-PGPUB; USPAT | ADJ | ON | 2007/10/22 10:32 |
| S130 | 17 | liquid membrane same (fatty acid ester or vegetable oil) | US-PGPUB; USPAT | ADJ | ON | 2008/05/26 14:27 |
| S131 | 5 | (tributyrin or dodecyl acetate or dodecyl butyrate or myristyl acetate) same membrane and extraction | US-PGPUB; USPAT | ADJ | ON | 2008/05/26 15:45 |
| S132 | 1 | ("5637224").PN. | US-PGPUB; USPAT | OR | OFF | 2008/05/26 15:54 |
| S133 | 1 | ("4309448").PN. | US-PGPUB; USPAT | OR | OFF | 2008/05/26 18:17 |
| S134 | 891 | (tributyrin or dodecyl acetate or dodecyl butyrate or myristyl acetate) and membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:02 |
| S135 | 6 | (tributyrin or dodecyl acetate or dodecyl butyrate or myristyl acetate) with membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:02 |
| S136 | 916 | (acetate or propionate or butyrate) with ester with membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:06 |
| S137 | 0 | (acetate or propionate or butyrate) with ester with liquid membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:06 |
| S138 | 6 | (acetate or propionate or butyrate) with ester with liquid near3 membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:06 |

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| S139 | 6 | (acetate or propionate or butyrate) with ester same liquid membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:08 |
| S140 | 866 | (acetate or propionate or butyrate) and liquid membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:24 |
| S141 | 49 | (acetate or propionate or butyrate) same liquid membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:24 |
| S142 | 1 | (tributyrin or dodecyl acetate or dodecyl butyrate or myristyl acetate) same liquid membrane | US-PGPUB; USPAT | ADJ | ON | 2008/05/27 08:24 |

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